


**Guam** SOLID WASTE RECEIVER



# Briefing

Receivership of Guam Government  
Division of Solid Waste  
Pursuant to Order of the  
United States District Court of Guam

April 25, 2008




*Gershman, Brickner & Bratton, Inc.*



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# Briefing Outline

1. Introductions
2. Background – solid waste management in Guam
3. Solid waste management best practices
4. Receivership objectives
5. Adjourn



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## 1. Introductions

Harvey Gershman, Receiver Officer In Charge

[www.gbbinc.com](http://www.gbbinc.com)



David Manning, Receiver Representative

[www.guamsolidwastereceiver.org](http://www.guamsolidwastereceiver.org)




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## 2. BACKGROUND – SOLID WASTE MANAGEMENT IN GUAM




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### GovGuam Solid Waste Division Overview

- 99 employees
- \$ 5.6 million annual expenditures
- \$ 6.2 million annual revenues
- Residential waste collected once per week by SWD
- Other waste self-hauled or by private hauler
- 25% recycling law 2002
- 2 % recycling achieved
- 4 transfer stations
- Ordot Dump
- New Landfill sited in Layon





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### Achieve Reasonable Waste Diversion Goals and Implement Programs/Services

Forecasted Impact of Increased Diversion



Year	2007*	2010	2015	2020
Annual Waste Generated in Tons*	145,231*	154,483	172,202	189,089
Tons Diverted	2,905*	38,621	60,271	94,545
Percent Diverted	2%*	25%	35%	50%
Annual Tons to Landfill	142,326*	115,862	111,931	94,545

\*Guam Integrated Solid Waste Management Plan, 2006



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### Overview SWD Problems

- Ordot Dump out of regulatory compliance for 22 years
- Only 25% of billings for service collected
- Equipment old and under disrepair
- Cash handled at Transfer Stations and Ordot Dump
- Only 2% diversion as compared to 25% law
- New landfill not built, not operating
- Ordot Dump not closed and pollution into nearby river and groundwater stopped



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### Residential Set Outs


In Compliance



Out of Compliance









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## SW Transfer Stations




### TRANSFER STATIONS




Existing Facilities




Dededo




Malojloj



Agat




Operations at Transfer Station



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## Agat Transfer Station





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THE WORKING FACE OF THE LANDFILL LOOKS LIKE THIS – BUT NOT THE REST OF THE FACILITY.




THIS IS THE RESIDENTIAL TIP ON MAY 10, 2007





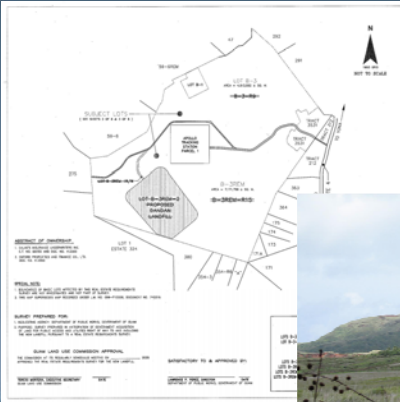
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### New Landfill Site In Layon





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## 3. SOLID WASTE MANAGEMENT BEST PRACTICES



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## Residential Collection: Cleaner



City of Ontario, CA  
Recyclables, Waste, Yard Waste





Metro Nashville, TN  
Uniform Set Outs In Carts Keeps Area  
Clean



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## Residential Collection: Worker Safety




Automatic  
Side  
Loaders



Rear Loader Trucks  
with Cart Lifters on  
the Back





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## 10 Top Reasons to Recycle

Source: National Recycling Coalition

1. Good for our economy
2. Creates jobs
3. Reduces waste
4. Good for the environment
5. Saves energy
6. Preserves landfill space
7. Prevents global warming
8. Reduces water pollution
9. Protects wildlife
10. Creates new demand



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### 10 Top Items to Recycle

Source: National Recycling Coalition

1. Aluminum
2. PET Plastic Bottles (#1)
3. Newspaper
4. Corrugated Cardboard
5. Steel Cans
6. HDPE Plastic Bottles (#2)
7. Glass Containers
8. Magazines
9. Mixed Paper
10. Computers



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### Recycling Facilities Operating in the U.S.



Year	Number of Facilities
1991	40
1993	166
1996	337
1998	369
2002	462
2006	539

Source: Governmental Advisory Associates, Inc.



Waste Management, Inc., Elkridge, MD



Mixed Paper and baled Aluminum Cans



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## Recycling Drop Offs: Easy and Clean



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## Recycling Drop Offs Convenient and Fun



County of Hawaii, HI




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### FYI...Recycling Rates on Hawaiian Islands

FY	01	02	03	04	05
Hawaii	2.4%	1.4%	15.1%	15.8%	19.1%
Maui	33.2%	26.9%	34.3%	31.8%	30.1%
Oahu	31.3%	31%	31.7%	31.0%	35.0%
Kauai	7.3%	7.6%	19.6%	25.8%	5.3%
State	27.5%	25.2%	29.4%	29.1%	30.1%

- State diversion goal is 50%
- HI 5 deposit system on beverage containers very effective


Note: County of Maui is a GBB client



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### Transfer Stations



Kitsap, WA

- 4 Trash Trucks Into 1 Trailer
- Less Trucks on the Road
- Less Fuel Used
- Less Cost



Fairfax County, VA





Oklahoma



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## Household Hazardous Waste Facility





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## Yard Waste Collection and Composting







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Maui County, HI







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## Recycling and Yard Waste Processing Facilities in Ocean County, NJ





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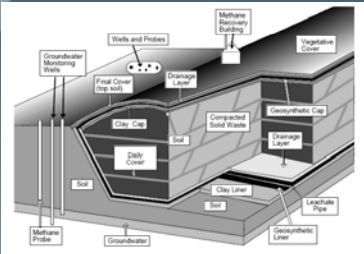
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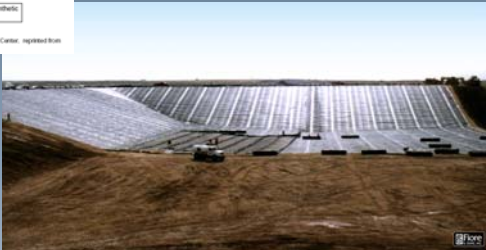
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## Disposal



Source: © C. L. Walsh and P. Walsh, University of Wisconsin-Madison Solid and Hazardous Waste Education Center, reprinted from Waste Age 1993, 13(2)





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Denver, CO

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### Keys to Successful Waste Diversion

#### Simple Rules

1. Dependable Service
2. Convenient for the Consumer to use
3. Educate consumers to use the programs effectively

#### Comprehensive Programs and Services Needed

- Curbside Collection
- Yard Waste Diversion
- C&D Diversion
- Commercial, Institutional, and Military Diversion
- Multi-use Transfer Stations
- Bulk Waste Diversion
- Reuse Facilities (non-profit)
- Education



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### 4. Receivership Objectives

- Full compliance with the Consent Decree of February 11, 2004 as follows:
  - Close Ordot Dump as required by the Consent Decree
  - Construct and open a new landfill in Layon that meets all applicable laws and regulations
  - Minimize additional waste to Ordot and properly size new landfill with appropriate waste diversion goals and programs to achieve those goals
  - Implement the Supplemental Environmental Project for a comprehensive waste diversion strategy for household hazardous waste



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### Receivership Objectives (Continued)

- Build on the work that has already been done to the maximum extent feasible
- Work with and through the current staff of the Solid Waste Division to the maximum extent practical
- Develop a strategy for simultaneous planning and construction activity
- Develop diversion programs



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### Receivership Objectives (Continued)

- Develop a financing plan
- Develop a financial management strategy
- Facilitate partnerships with the current and planned military organizations in Guam
- Develop measurable standards for determining when the Receivership can end



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### Areas Requiring Capital Funding

- Acquisition of land for new landfill and access road
- Bridge improvements on roads to Layon, if not already funded
- Final designs and procurements for new landfill and Ordot Dump closure
- Construction of the new landfill and future cells
- Closing the Ordot Dump
- Post-closure activities at Ordot
- Updating the equipment and establishing proper systems for the Solid Waste Division
- Upgrade transfer station(s)
- Construction of interim and permanent diversion/processing facilities
- Construct household hazardous waste facility



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### Thank You

### Questions?



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